CGNS Telecon Minutes

Tuesday, 26 March 2019, 10:00am Eastern Time

1. The meeting was called to order by ZJ Wang. Attendees are listed in Appendix A.

2. 22 January 2019 minutes were approved as published on the website.

3. Steering Committee Issues

    a. ZJ Wang introduced Ben Urick (nVariate, Inc.), who is interested in joining the CGNS steering committee. The committee voted nVariate as our 21st steering committee member.

4. Steering committee attendance:
   a. Committee members (telecon last date attended):

Airbus	09/2018
ANSYS	03/2019
Boeing	11/2018
Cenaero	03/2019
Colo State	03/2019
DLR	03/2019
HDF	03/2019
IL	01/2019
NASA LRC	03/2019
Numeca	03/2019
nVariate	03/2019
ONERA	06/2018
P&W	03/2019
Pointwise	03/2019
SAFRAN	11/2018
Sandia	03/2019
Tecplot	03/2019
TTC	11/2018
TU Delft	03/2019
U Colo	03/2019
U Kansas	03/2019

5. Discussion
    a. Software status: Version 3.4.0 was released. For CPEX 0040, Guzik to add documentation for additional examples. It is also unclear if the documentation for CPEX 0041 is fully in place in the SIDS and filemapping docs.
    b. The committee is working toward the submission of a new proposal for an NSF grant (due April 8). Last time, the proposal got excellent reviews but was not funded. Breitenfeld is heading up the effort, and several committee members are lending support by writing use cases, impact statements, etc.
    c. Hillewaert discussed the status of the high order solution storage CPEX. They are ready to be posted (as an initial draft for committee comment) as CPEX 0044 and 0045. Rumsey to post Hillewaert's CPEX 0044 and 0045, along with an additional proposal on particles by Hauser (0046).

6. Review action items
    a. Continue to review outstanding JIRA items/tasks.
        i. Item carries.
    b. Guzik will update the documentation for CPEX 0040 by 25 Jan.
        i. Docs for examples are still needed.
    c. Gutzwiller and Sjaardema will review CPEX 0040 coding and feedback to Breitenfeld by 25 Jan.
        i. Done.
    d. Breitenfeld will move CPEX 0040 to the develop branch by 1 Feb.
        i. Done.
    e. Hillewaert will set up a meeting to review the draft Higher Order CPEX documents by 1 Feb.
        i. Done.
    f. Baker and Karman have some changes for P4 higher order changes and will send them to Rumsey to make docs change.
        i. Item carries.
    g. Breitenfeld will add Gutzwiller large unstructured multi-block partial write test to regression test suite and see if he can reproduce the issues.
        i. Item carries.
    h. Breitenfeld to do a new CGNS release, including the software for CPEX 0040 and 0041.
        i. Done.
    i. Hillewaert, Poinot, Wang, and Karman to decide about CAD classification. May need new writeup on how best to use current functions to define/describe surface info.
        i. Item carries.
    j. Breitenfeld to update documentation for Intel compilers (serial and parallel) for Windows.
        i. Item carries.
    k. Hauser to check status of NSF project and report to committee
        i. Item carries.

7. Ongoing action items
    a. Continue to review outstanding JIRA items/tasks.
    b. For CPEX 0040, Guzik to add documentation for additional examples. It is also unclear if the documentation for CPEX 0041 is fully in place in the SIDS and Filemapping docs.
    c. Baker and Karman have some changes for P4 higher order changes and will send them to Rumsey to make docs change.
    d. Breitenfeld will add Gutzwiller large unstructured multi-block partial write test to regression test suite and see if he can reproduce the issues.
    e. Hillewaert, Poinot, Wang, and Karman to decide about CAD classification. May need new writeup on how best to use current functions to define/describe surface info.
    f. Breitenfeld to update documentation for Intel compilers (serial and parallel) for Windows.
    g. Hauser to check status of NSF project and report to committee.
    h. Rumsey to post Hillewaert's CPEX 0044 and 0045, along with an additional proposal on particles by Hauser (0046).

8. New business:
    a. Is a CPEX needed for IGA (Iso-Geometric Analysis)? Urick and Moller to start thinking about it.
    b. The committee now has 5 CPEXes "under review" (0042 – 0046). A plan is needed to start attacking these.

9. The next meeting is tentatively scheduled for Tuesday, 21 May 2019 at 10am Eastern.

10. Adjourn

Attendees:

Scot Breitenfeld	HDF Group
Bob Bush	Pratt & Whitney
Tony Garratt	ANSYS
David Gutzwiller	NUMECA
Stephen Guzik	Colorado State
Scott Imlay	Tecplot
Thomas Hauser	U Colorado
Koen Hillewaert	Cenaero
Steve Karman	Pointwise
Tobias Leicht	DLR
Matthias Moller	TU Delft
Chris Rumsey	NASA Langley
Greg Sjaardema	Sandia
Ben Urick	nVariate, Inc.
ZJ Wang	U Kansas